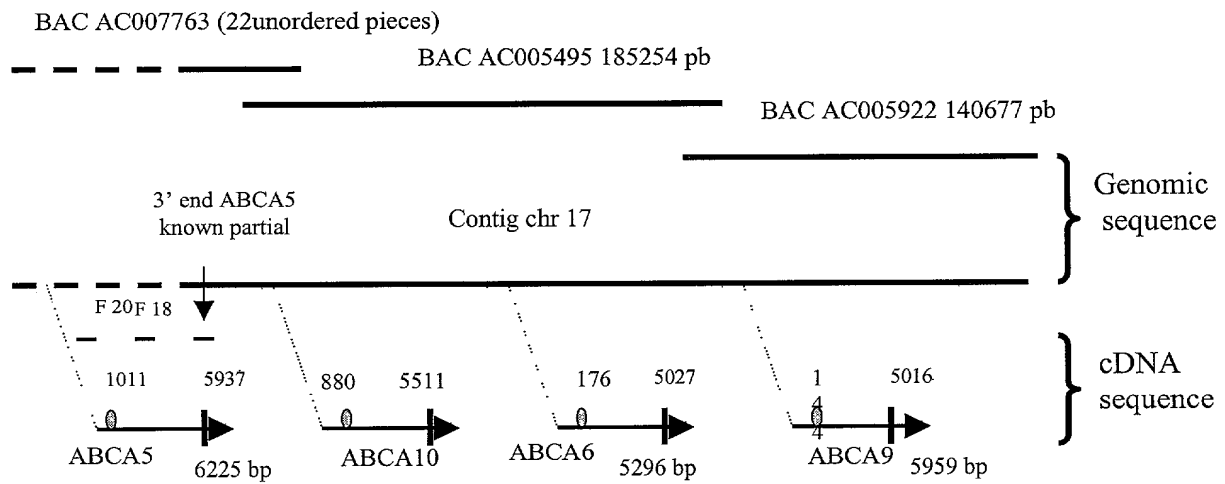


**Figure 1 : Cluster ABCA 5,6,9,10 chromosome 17**



⊙ codon initiation ATG

| Codon stop

Figure 2

DIALIGN 2.0

Aligned sequences:           length:  
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1)ABC-A-1-1.pep	2261
2)ABC-A-5-2.pep	1641
3)ABC-A-6-3.pep	1617
4)ABC-A-8-1.pep	1581
5)ABC-A-9-3.pep	1624

Alignment (DIALIGN format):  
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ABC-A-1-1.	1	-----MAC	WPQLRLLLWK	NLTFRRRQTC	QLLLEVAWPL	FIFLILISVr
ABC-A-5-2.	1	mstaIREVGv	WRQTRTLLK	NYLIKCRTKK	SSVQEILFPL	FFLFWLILIs
ABC-A-6-3.	1	MN--MKQKSV	YQOTKALLCK	NFLKKWRMKR	ESLLEWGLSI	LLGLCIalfs
ABC-A-8-1.	1	mr--KRRISV	CQQTWALLCK	NFLKKWRMKR	ESLMEWLNSL	LLLLCLyiy
ABC-A-9-3.	1	MS--KRRMSV	GQQTWALLCK	NCLKKWRMKR	QTLLEWLFSE	LLVLFYLYff

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ABC-A-1-1.	44	lsyppeqhe	chfpnkamps	agtlpwvqgi	icnannpcfr	yptPGEAPGV
ABC-A-5-2.	51	mmhpnkk-YE	EVPNI----	-----	-----	-----E
ABC-A-6-3.	49	ssmrnvqf--	-----	-----	-----	-----PGMAPQN
ABC-A-8-1.	49	hs-HQVNDFS	SLLTM----	-----	-----	-----D
ABC-A-9-3.	49	snlHQVHDTF	QMSSM----	-----	-----	-----D

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ABC-A-1-1.	94	VGNFNKsiva	rlfsdarrll	lysqkdtsmk	dmrkvlrtlq	qikksssnlk
ABC-A-5-2.	66	LNPMDFKFTLS	NL-----	-----	-----	-----
ABC-A-6-3.	64	LGRVDKFNSS	SL-----	-----	-----	-----
ABC-A-8-1.	64	LGRVDTFNES	RF-----	-----	-----	-----
ABC-A-9-3.	65	LGRVDSFNDT	NY-----	-----	-----	-----

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ABC-A-1-1.	144	lqdfldvnet	fsgflyhnls	lpkstvdckml	radvilhkvf	lqgyqlhlts
ABC-A-5-2.	78	-----	-----	-----	-----	-----
ABC-A-6-3.	76	-----	-----	-----	-----	-----
ABC-A-8-1.	76	-----	-----	-----	-----	-----
ABC-A-9-3.	77	-----	-----	-----	-----	-----

ABC-A-1-1.	194	lcngskseem	iqldgdevse	lclprekla	aaervlrsnm	dilkpiltl
ABC-A-5-2.	78	-----	-----	-----	-----	-----
ABC-A-6-3.	76	-----	-----	-----	-----	-----
ABC-A-8-1.	76	-----	-----	-----	-----	-----
ABC-A-9-3.	77	-----	-----	-----	-----	-----

ABC-A-1-1. 244 nstspfske laeatktllh slgtlagelf smrswsdmrq evmfltnvns  
 ABC-A-5-2. 78 -----  
 ABC-A-6-3. 76 -----  
 ABC-A-8-1. 76 -----  
 ABC-A-9-3. 77 -----

ABC-A-1-1. 294 sssstqiyqa vsrivcghpe ggglkiksln wyednnykal fgnggteeda  
 ABC-A-5-2. 78 -----  
 ABC-A-6-3. 76 -----  
 ABC-A-8-1. 76 -----  
 ABC-A-9-3. 77 -----

ABC-A-1-1. 344 etfydnsttp ycnldmknle ssplsriiwk alkpllvvgKI LYTPDTPATR  
 ABC-A-5-2. 78 -----IL GYTPVTNITS  
 ABC-A-6-3. 76 -----MV VYTPISNLTQ  
 ABC-A-8-1. 76 -----SV VYTPVTNTTQ  
 ABC-A-9-3. 77 -----VI AFAPESKTTQ

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ABC-A-1-1. 394 QVMAEVNKTf qelavfhdle gmweelspki wtfmensqem dlvrmlldsr  
 ABC-A-5-2. 90 SIMQKVSTdh lpdviiteeY TNE-----  
 ABC-A-6-3. 88 QIMNKALAP LLKGtsVIGA PNK-----  
 ABC-A-8-1. 88 QIMNKVASTP FLAGKEVLGL PDE-----  
 ABC-A-9-3. 89 EIMNKVASAP FLKGRTIMGW PDE-----

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ABC-A-1-1. 444 dndhfweqql dglwdtaQDI VAFLAKHPED Vqssngsvyt wreafnetnq  
 ABC-A-5-2. 113 -----KEM LTSSLKPSN FVGVVFKDSM SYELRFFpdm  
 ABC-A-6-3. 111 -----THM DEILLENLPY AMGIIFNETF SYKLIFPQGY  
 ABC-A-8-1. 111 -----ESI KEFTANYPEE IVRVTFTNTY SYHLKFLLGH  
 ABC-A-9-3. 112 -----KSM DELDLNYSID AVRVIFTDTF SYHLKFSWGH

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ABC-A-1-1. 494 airtisrfme cvnlklepi atevwlinks mellderkwf agivftgitp  
 ABC-A-5-2. 146 ipvssiymds ragcsk---SC-----  
 ABC-A-6-3. 144 NSPLWKE--D FSAHCWDGYG EFSC-----  
 ABC-A-8-1. 144 GMPAKKEHKD HTAHCYETNE dvyC-----  
 ABC-A-9-3. 145 RIPMMKEHRD HSAHCQAVNE KMKC-----

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ABC-A-1-1. 544 gsielphhvk ykirmdidnv ertnkikdgy wdpgrpradpf EDMRYVWGGF  
 ABC-A-5-2. 164 -----EAAQYWSSGF  
 ABC-A-6-3. 166 -----TLTKYWNRGF  
 ABC-A-8-1. 168 -----EVSVFWEKGF  
 ABC-A-9-3. 169 -----EGSEFEWEKGF

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100533 1200 100533 1200

ABC-A-1-1. 594 AXLQDVVEQA IIRVLTGtek k-----TGV YMQQMPYpcy vddiflrvm  
 ABC-A-5-2. 174 TVLQASIDAA IIQLKTNVSL WKELEStkAV IMGETAVVEI DTfPRGVILI  
 ABC-A-6-3. 176 VALQTAINTA IIEITTNHPV MEELMSVTAI TMKTLPFITK NLLHNEMFIL  
 ABC-A-8-1. 178 VALQAAINAA IIEITTNHVS MEELMSVTGK nMKMHSFIGQ SGVITDLYLF  
 ABC-A-9-3. 179 VAFQAAINAA IIEIATNHVS MEQLMSVTGV HMKILPFVAQ GGVATDFFIF

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ABC-A-1-1. 638 rsmplfmltla wiysvaviik gIVYEKEARL KETMRIMGLD NSILWFSWFI  
 ABC-A-5-2. 224 YLVIAFSPFG YFLAIH---- -IVAEKEKKI KEFLKIMGLH DTAFWLSWVL  
 ABC-A-6-3. 226 FFLHFSPLV YFISLN---- -VTKERKKS KNLMKMMGLQ DSAFWLSWGL  
 ABC-A-8-1. 228 SCIIISFSSI YYASVN---- -VTREKRKM KALMTMMGLR DSAFWLSWGL  
 ABC-A-9-3. 229 FCIISFSTFI YYVSVN---- -VTQERQYI TSLMTMMGLR ESAFWLSWGL

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ABC-A-1-1. 688 SSLIPLLUSA GLLVILKLG NLLPYSDPSV VFVFLSVFAV VTILQCFLIS  
 ABC-A-5-2. 269 LYTSLIFLMS LLMAVIATas lLFPQSSSIV IFLLFFLYGL SSVFFALMLT  
 ABC-A-6-3. 270 IYAGFIFIIS IFITIIITFT QIIIVMTGFMV IFILFFLYGL SLVALVFLMS  
 ABC-A-8-1. 272 LYAGFIFIMA LFLALVIRST QFIILSGFMV VFSLFLLYGL SLVALAFIMS  
 ABC-A-9-3. 273 MYAGFILIMA TLMALIVKSA QIVVLTGFMV VFTLFLLYGL SLITLAFIMS

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ABC-A-1-1. 738 TLFSRANLAA acggIIYFTL YLPYVLCV-A WQDYVGFTLK IFASLLSPVA  
 ABC-A-5-2. 319 PLFKKSKHVG IV--EFFVTV afgfiglmii LIESFPKSLV WLFSPFCHCT  
 ABC-A-6-3. 320 VLLKAVLTN LV--VFLTL FWGCLGFT-V FYEQLPSSLE WILNICSPPA  
 ABC-A-8-1. 322 ILVKKSFLTG LV--VFLTL FWGCLGFT-S LYRHLPASLE WILSLLSPFA  
 ABC-A-9-3. 323 VLIKKPFLTG LV--VFLTL FWGILGFP-A LYTHLPAPLE WTLCLLSPFA

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ABC-A-1-1. 787 FGFGceyfal feeqgigvqw dnlfespsvee DGFNLTTSVS MMLFDFTLYG  
 ABC-A-5-2. 367 FVIGIAQVMH LEDFNEGASF SNLTA---- GPYPLIITII MLTLNSIFYV  
 ABC-A-6-3. 367 FTTGMIQIIK LDYNLNGVIF PDPSG---- DSYTMIATFS MLLLDGLIYL  
 ABC-A-8-1. 369 FMLGMAQLLH LDYDLNSNAF PHPSD---- GSNLIVATNF MLAFDTCLYL  
 ABC-A-9-3. 370 FTVGMAQLIH LDYDVNSNAH LDSSQ---- NPYLIATLF MLVFDTLIYL

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ABC-A-1-1. 837 VMTWYIEAVF PGQYGIPRPW YFPCTKSYWF geesdekshp gsnqkrisei  
 ABC-A-5-2. 412 LLAVYLDQVI PGEFGLRRSS LYFLKPSYWS KSKRNYEELS EGNVNGNisf  
 ABC-A-6-3. 412 LLALYFDKIL PygderhySP LFFLNSSSCF QHQRNTAKVI EKEIDAEPHS  
 ABC-A-8-1. 414 ALAIYFEKIL PNEYGHRPP LFFLKSSFWS QTQKTDHVAL EDEMADPSF  
 ABC-A-9-3. 415 VLTLYFDKIL PAEYGHRCSP LFFLKSCFWF QHGRANHVVL ENETDSDPTP

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ABC-A-1-1. 887 cmeeepthlk lgvsignlvk vyrdgmkvav d-----GLA LNFYEGQITS  
 ABC-A-5-2. 462 seiiePVSSSE FVGKEAIRIS GIQKTYRKKG ENVEALRNLS FDIYEGQITA  
 ABC-A-6-3. 462 DDYFEPVAPE FQGKEAIRIR NVKKEYKGKS GKVEALKGLL FDIYEGQITA  
 ABC-A-8-1. 464 HDSFEQAPPE FQGKEAIRIR NVTKEYKGKP DKIEALKDLV FDIYEGQITA  
 ABC-A-9-3. 465 NDCFEPVSPE FCGKEAIRIK NLKKEYAGKC ERVEALKGVV FDIYEGQITA

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ABC-A-1-1. 931 FLGHNGAGKT TTMSILTGLF PPTSGTAYIL Gkdir--SEM STIRQNLGVC  
 ABC-A-5-2. 512 LLGHSGTGKS TLMNILCGLC PPSDGFASIY GHRVSEIDEM FEARKMIGIC  
 ABC-A-6-3. 512 ILGHSGAGKS SLLNILNGLS VPTGSGVTIY NKNLSEMQDL BEIRKITGVC  
 ABC-A-8-1. 514 ILGHSGAGKS TLLNILSGLS VPTKGSVTIY NKNLSEMADL ENLSKITGVC  
 ABC-A-9-3. 515 LLGHSGAGKT TLLNILSGLS VPTSGSVTVY NHTLSRMADI ENISKFTGFC

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ABC-A-1-1. 979 PQHNVLFDM L TVEEHIWFYA RLKGLSEKHV KAEMEQMald vglpssklks  
 ABC-A-5-2. 562 PQLDIHFDVL TVEENLSILA SIKGIpanni iQEVQKVLLD LDMQTIKDNQ  
 ABC-A-6-3. 562 PQFNVQFDIL TVKENLSLFA KIKGIHLKEV EQEVQRILLE LDMQNIQDNL  
 ABC-A-8-1. 564 PQSNVQFDFL TVRENRLRFA KIKGILPQEV -----  
 ABC-A-9-3. 565 PQSNVQFGFL TVKENRLRFA KIKGILPHEV -----

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ABC-A-1-1. 1029 ktsqLSGGMQ RKLSVALAFV GGSK-----  
 ABC-A-5-2. 612 AKK-LSGGQK RKLSLGI AVL GNPK-----  
 ABC-A-6-3. 612 AKH-LSEGQK RKLTFGITIL GDPQ-----  
 ABC-A-8-1. 594 ----- -DKE-----  
 ABC-A-9-3. 595 ----- -KEEvgrvvq elemeniqdi laqnlsggqn

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ABC-A-1-1. 1053 ----- --VVILDE PTAGVDPYSR RGIWELLKY RQGRTIILST  
 ABC-A-5-2. 635 ----- --ILLLDE PTAGMDPCSR HIVWNLLKYR KANRVTVFST  
 ABC-A-6-3. 635 ----- --ILLLDE PTTGLDPFSR DQVWSLLRER RADHVILFST  
 ABC-A-8-1. 597 ----- --IFLLDE PTAGLDPFSR HQVWNLLKER KTDRLVILFST  
 ABC-A-9-3. 624 rkltfgiaail gdpqVLLLDE PTAGLDPLSR HRIWNLLKEG KSDRLVILFST

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ABC-A-1-1. 1089 HHMDEADV LG DRIAIISHGK LCCVGSSLFL KNQLGTGYL TLvkkdvess  
 ABC-A-5-2. 671 HFMDEADILA DRKAVISQGM LKCVGSSMFL KSKWGIGYRL SMYIDKYC--  
 ABC-A-6-3. 671 QSMDEADILA DRKVIMSNGR LKAGSSMFL KRRWGLGYHL SLHrNEIC--  
 ABC-A-8-1. 633 QFMDEADILA DRKVFLSQGK LKAGSSLFL KKKWGIGYHL SLQLNEIC--  
 ABC-A-9-3. 674 QFIDEADILA DRKVFSNGK LKAGSSLFL KKKWGIGYHL SLHLNERC--

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ABC-A-1-1. 1139 lsscrnsst vsylkkedsv sqsssdaglg sdhesdtlti DVSAISNLIR  
ABC-A-5-2. 719 ----- ATESSLVLK  
ABC-A-6-3. 719 ----- NPEQTSFIT  
ABC-A-8-1. 681 ----- VEENITSLVK  
ABC-A-9-3. 722 ----- DPESITSLVK

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ABC-A-1-1. 1189 KHVSEARLVE DIGHELTIVL PYEAakegaf velfheidDR LSDLGISSYG  
ABC-A-5-2. 729 QHIPGATLLQ QNDQQLVYSL PFKDMDKFSG LFSAL---DS HSNLGVISYG  
ABC-A-6-3. 729 HHIPDAKLKT ENKEKLVYTL PLERTNTFPD LFSDL---DK CSDQGVIGYD  
ABC-A-8-1. 691 QHIPDAKLTA KSEGKLIYTL PLERTNKFPE LYKDL---DS YPDLGIENYG  
ABC-A-9-3. 732 QHISDAKLTA QSEKLVYIL PLERTNKFPE LYRDL---DR CSNQGIEDYG

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ABC-A-1-1. 1239 ISETTLEEIF LKVAEESGVD AEtsdgtlpa rrrrrafgdk qscrlpfted  
ABC-A-5-2. 776 VSMTTLEDVF LKLEVEAEID QADYSVFTQQ PLEEMDSKS FDEMEQSLLI  
ABC-A-6-3. 776 ISMTLNEVF MKLEGQSTIE Qdf-----E QVEMIRDSSES LNEMLAHSS  
ABC-A-8-1. 738 VSMTTLNEVF LKLEGKSTIN ESDIAILGEV QAEKADDTER LVEMEQLVSS  
ABC-A-9-3. 779 VSITTLNEVF LKLEGKSTID ESDIGIWGQL QTDGAKDIGS LVELEQVLSS

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ABC-A-1-1. 1289 daadpndsd dipesretl1l sgmdgkgsyq VKGWKLTOQQ FVALLWKRL  
ABC-A-5-2. 826 LSETKASl-- ----- VSTMSLWKQQ MYTIAKFHFF  
ABC-A-6-3. 820 FSEMOTA--- ----- VSDMGLWRMQ VFAMARLRFL  
ABC-A-8-1. 788 LNKMRKT--- ----- IGGVALWRQQ ICAIARVRL  
ABC-A-9-3. 829 FHETRKT--- ----- ISGVALWRQQ VCAIAKVRFL

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ABC-A-1-1. 1339 IARRSRKGFF AQIVLPAVFV CIALVFSLIv ppfgkypsle lqpwmynegy  
ABC-A-5-2. 854 TLKRESKSVR SVLLLLLIFV TVQIfmflvh hsfknavvPI KLVPDLYFLK  
ABC-A-6-3. 847 KLKRQTKVLL TLLLVFGIAI FPLIVENIY amlnekid-W EFKNELYFLS  
ABC-A-8-1. 815 KLKHERKALL ALLLILMAGF CPLLVEYTMV KIYQNSYt-W ELSPHLYFLA  
ABC-A-9-3. 856 KLKKERKSLW TILLLFGISF IPQLLEHLFY ESYQKSY-PW ELSPNTYFLS

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ABC-A-1-1. 1389 tfvsndaped tgtlellnal tkdpgfgtrc megnpipdtp cqageewtt  
ABC-A-5-2. 904 PGDKP-----  
ABC-A-6-3. 896 PGQLP-----  
ABC-A-8-1. 864 PGQQP-----  
ABC-A-9-3. 905 PGQQP-----

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ABC-A-1-1. 1439  apvpqtimdl  fqngnwtmqn  pspacqcssd  kikkmlpvcp  pgagglpppq
ABC-A-5-2.  909  -----
ABC-A-6-3.  901  -----
ABC-A-8-1.  869  -----
ABC-A-9-3.  910  -----

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ABC-A-1-1. 1489  RKQNTADILQ  DLTGRNISDY  LVKTYVQIIA  KSLKNkiwvn  efryggfslg
ABC-A-5-2.  909  HKYKTSLLLQ  NSADSDISDL  ISFFTSQNIM  VTMINDsdyv  svap--HSAA
ABC-A-6-3.  901  QEPRTSLLLI  NNTESNIEDF  IKSLKHQNIL  LEVDDFENRN  GTDGLSYNGA
ABC-A-8-1.  869  HDPLTQLLLI  NKTGASIDDF  IQSVEHQNIA  LEVDAFGTRN  GTDDPSYNGA
ABC-A-9-3.  910  QDPLTHLLVI  NKTGSTIDNF  LHSLLRRQNI  IEVDAFGTRN  GTDDPSYNGA

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ABC-A-1-1. 1539  vsntqalpps  qevndatkqm  kkhklakds  sadrflnslg  rFMTGLDTRN
ABC-A-5-2.  957  L-----  -----  -----  -----  -NVMHSEKDY
ABC-A-6-3.  951  I-----  -----  -----  -----  -IVSGKQKDY
ABC-A-8-1.  919  I-----  -----  -----  -----  -TVCCNEKNY
ABC-A-9-3.  960  I-----  -----  -----  -----  -IVSGDEKDH

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ABC-A-1-1. 1589  NVKVWFNNKG  WHAISSFLNV  INNAILRanl  qkgenpshyg  itafnhplnl
ABC-A-5-2.  967  VFAAVFNSTM  VYSLPILVNI  ISNYYLYHLN  VTETIQIwst  pffqeitdiv
ABC-A-6-3.  961  RFSVVCNTKR  LHCFFILMNI  ISNGLLQMFN  HTQHIRIESS  PFplshiglw
ABC-A-8-1.  929  SFSLACNAKR  LNCFPVLMDI  VSNGLLGMVK  PSVHIRTERS  TFLEnggqdp
ABC-A-9-3.  970  RFSIACNTKR  LNCFPVLMDV  ISNGLLGIFN  SSEHIQTDRS  TFFEhmdye

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ABC-A-1-1. 1639  tkqqqlsevap  mttsvdvlvs  icvifamsfv  pasfvvflIQ  ERVSKAKHLQ
ABC-A-5-2.  1017  fkielyfqaa  llgiivtamP  PYFAMEN---  -----AE  NHKIKAYTQL
ABC-A-6-3.  1011  tGLPDGSFFL  FLVLCSEI--S  PYITMGS---  -----IS  DYKKNKSQL
ABC-A-8-1.  979  igflayimFW  LVLTSSE--P  PYIAMSS---  -----ID  DYKNRARSQ
ABC-A-9-3.  1020  yGYRSNTFFW  IPMAASF--T  PYIAMSS---  -----IG  DYKKKAHSQL

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ABC-A-1-1. 1689  FISGVKPVII  WLSNFWWDMC  NYVVPATLVI  IIFICFQQKS  Y-VSSTNLPV
ABC-A-5-2.  1056  KLSGLLPSAY  WIGQAVVDIP  LFFIILILML  GSLLAFHYGL  Yfytkvfl-A
ABC-A-6-3.  1048  WISGLYTSAY  WCGQALVDVS  FFILILLMY  LIFYIENMQY  LLITSQIVFA
ABC-A-8-1.  1016  RISGLSPSAY  WFGQALVDVS  LYFLVVFVIY  LMSYISNFED  MLLTiihiq
ABC-A-9-3.  1057  RISGLYPSAY  WFGQALVDVS  LYFLILLMQ  IMDYIFSPEE  IIFIIqNLLI

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ABC-A-1-1. 1738 LALLLLLYGW SITPLMYPAS FVFKipstay vvltsvnlfi gingsvatfv  
 ABC-A-5-2. 1105 VVFCLIGYVP SVILFTYIAS FTFKKILNTK EFWSFIYSVa alciAITEIT  
 ABC-A-6-3. 1098 LVIVTPGYAA SLVFFIYMIS FIFRKRKNS GLWSFYFFfa stimfsi--  
 ABC-A-8-1. 1066 ip-CAVGYSF SLIFMTYVIS FIFRKRKNS GIWSFCFYV- ---VTVFSVA  
 ABC-A-9-3. 1107 QILCSIGYVS SLVFLTYVIS FIFRNGRKNS GIWSFFFLI- ---VVIFsiV

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ABC-A-1-1. 1788 lelfstdnkl nindilksvf lifphfclgr glidmvknqa madalerfge  
 ABC-A-5-2. 1155 FFMGYTIATI LHYAFCIIP IYPLLGLIS FIKISwknvr knvdtynpwd  
 ABC-A-6-3. 1145 -TLINHFDLS ILITTMVLVP SYTLGfktf levrdeqehyr efpeanfels  
 ABC-A-8-1. 1111 GFAFSIFESD IPFIITFLIP PATMIGCLFL SSHLlfsslf seermvqp-  
 ABC-A-9-3. 1153 aTDLNEYGFL GLFFGTMLIP PFTLIGSLFI FSEISpdsmd ylgaseseiv

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ABC-A-1-1. 1838 nrfv splswd lvgrnl fama vegvfflit vliq---YR FFIRP--RPV  
 ABC-A-5-2. 1205 rls-VAVISP YLQCVLWIFL LQYYEKKYGG RSIRKDPFFR nlstkskNRK  
 ABC-A-6-3. 1194 atdFLVCFIP YQOTLLPVFV LRCMELKCGK KMRKDPVFR ISPRS--RDA  
 ABC-A-8-1. 1160 ---FLVFLIP FLHFIIFLFT LRCLEWKFGK KMRKDPVFR ISPRS--SDV  
 ABC-A-9-3. 1203 ---YLALLIP YLHFLIFLFI LRCLEMNCRK KLMRKDPVFR ISPRS--NAI

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ABC-A-1-1. 1882 NAKLSPLNDE DEDVRRERQR ILDGGGQNDI leikeltkiy -----  
 ABC-A-5-2. 1254 LPEPPDNEDE DEDVKAERLK VKELMGQCC EEKPSIMVSN LHKEYDDKKD  
 ABC-A-6-3. 1242 KPNPEEPIDE DEDIQTERIR TATALTTSIL DEKPVIIASC LHKEYAGQKK  
 ABC-A-8-1. 1205 QONPEEPEGE DEDVQMERVR TANALNSTNF DEKPVIIASC LRKEYAGKRK  
 ABC-A-9-3. 1248 FPNPEEPEGE EEDIQMERMR TVNAMAVRDF DETPVIIASC LRKEYAGKKK

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ABC-A-1-1. 1922 ---RRKRKP AVDRICVGIP PGEFCGLLGV NGAGKSSTFK MLTGDTTVTR  
 ABC-A-5-2. 1304 FLLSRKVKKV ATKYISFCVK KGEILGLLGP NGAGKSTIIN ILVGDIEPTS  
 ABC-A-6-3. 1292 SCFSKRKKKI AARNISFCVQ EGEILGLLGP SGAGKSSSIR MISGITKPTA  
 ABC-A-8-1. 1255 GCFSKRKNKI ATRNVSFCVR KGEVLGLLGH NGAGKSTSIK VITGDTKPTA  
 ABC-A-9-3. 1298 NCFSKRKKT I ATRNVSFCVK KGEVIGLLGH NGAGKSTTIK MITGDTKPTA

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ABC-A-1-1. 1968 GDAFLnrnsi lsnihevqh- NMGYCPQFDA ITELLTGREH VEFFALLRGV  
 ABC-A-5-2. 1354 GQVFLgdyss etsedddSLK CMGYCPQINP LWPDTTLQEH FEIYGAVKGM  
 ABC-A-6-3. 1342 GEVELKGcss v-----LG HLGYPQENV LWPMLTLREH LEVYAAVKGL  
 ABC-A-8-1. 1305 GQVLLKSGSG G-----DALE FLGYCPQENA LWPNLTVRQH LEVYAAVKGL  
 ABC-A-9-3. 1348 GQVILKSGSG G-----EPLG FLGYCPQENA LWPNLTVRQH LEVYAAVKGL

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ABC-A-1-1. 2017 PEKEVGKVge wairkglvk ygekyagnyS GGNKRKLSTA MALIGGPPVV  
 ABC-A-5-2. 1404 SASDMKEVIS RITHALDLKE HLQKTVKKLP AGIKRKL CFA LSMLGNPQIT  
 ABC-A-6-3. 1385 RKADARLAIA RLVSAFKLHE QLNVPVQKLT AGITRKL C FV LSLLGNPSV  
 ABC-A-8-1. 1350 RKGDAEVAIT RLVDALKLQD QLKSPVKTL S EGIKRKL C FV LSILGNPSVV  
 ABC-A-9-3. 1393 RKGDAmIAIT RLVDALKLQD QLKAPVKTL S EGIKRKL R FV LSILGNPSVV

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ABC-A-1-1. 2067 FLDEPTTGMD PKARRFLWnc alsvvkegrs -VVLTSMSME BCEALCTRMA  
 ABC-A-5-2. 1454 LLDEPSTGMD PKAKQHMWRA IRTAFKNRKR AAILTTHYME EAEAVCDRVA  
 ABC-A-6-3. 1435 LLDEPSTGMD PTGQQQMWQA IQAVVKNTER GVLLTTHNLA EAEALCDRVA  
 ABC-A-8-1. 1400 LLDEPSTGMD PEGQQQMWQA IRATFRNTER GALLTTHYMA EAEAVCDRVA  
 ABC-A-9-3. 1443 LLDEPSTGMD PEGQQQMWQV IRATFRNTER GALLTTHYMA EAEAVCDRVA

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ABC-A-1-1. 2116 IMVNGRFRCL GSVQHLKNRF GDGYtivvri ag--SNPDLK PVQDFFLAF  
 ABC-A-5-2. 1504 IMVSGQLRCI GTVQHLKSKF GKGYFLEIKL kdwiENLEVD RLQREIQYIF  
 ABC-A-6-3. 1485 IMVSGRLRCI GSIQHLKNKL GKDYILELKV K---ETSQVT LVHTEILKLF  
 ABC-A-8-1. 1450 IMVSGRLRCI GSIQHLKSKF GKDYLLMKV KNLA---QVE PLHAEILRLF  
 ABC-A-9-3. 1493 IMVSGRLRCI GSIQHLKSKF GKDYLLMKL KNLA---QME PLHAEILRLF

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ABC-A-1-1. 2164 PGSPVPEKHR NMLQYQLPSS lss-LARIFS ILSQSKKRLH IEDYSVSQTT  
 ABC-A-5-2. 1554 PNASRQESFS SILAYKIPKE DVQsLSQSFF KLEAKHAF A IEEYSFSQAT  
 ABC-A-6-3. 1532 PQAAGQERY S SLLTYKLPVA DVYPLSQT F H KLEAVKHNFN LEEYSLSQCT  
 ABC-A-8-1. 1497 PQAARQERY S SLMVYKLPVE DVQPLAQAFF KLEKVKQSF D LEEYSLSQST  
 ABC-A-9-3. 1540 PQAQQERFS SLMVYKLPVE DVRPLSQAFF KLEIVKQSF D LEEYSLSQST

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ABC-A-1-1. 2213 LDQVFVNFAK DQSDDDHlkd lslhknqtvv dvavlt s flq dekvkesyv  
 ABC-A-5-2. 1604 LEQVFVELTK EQEEDNscg tlnstlwver tqedr vvf -----  
 ABC-A-6-3. 1582 LEKVFLLESK EQEVGNFDEE IDTTMRWKLL Phsdep-----  
 ABC-A-8-1. 1547 LEQVFLELSK EQELGDFEED FDP SVKWKLL PQEEP-----  
 ABC-A-9-3. 1590 LEQVFLELSK EQELGDLEED FDP SVKWKLL LQEEP-----

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[illegible]

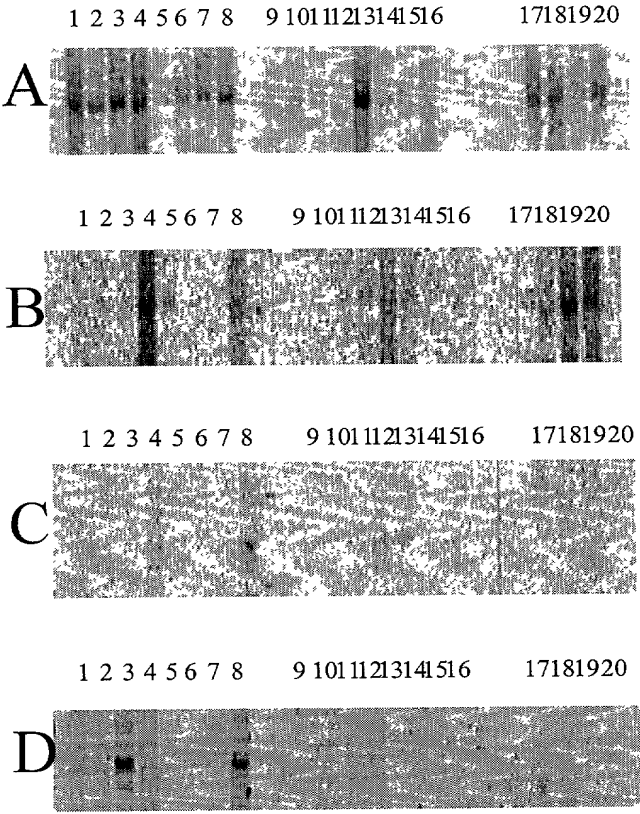
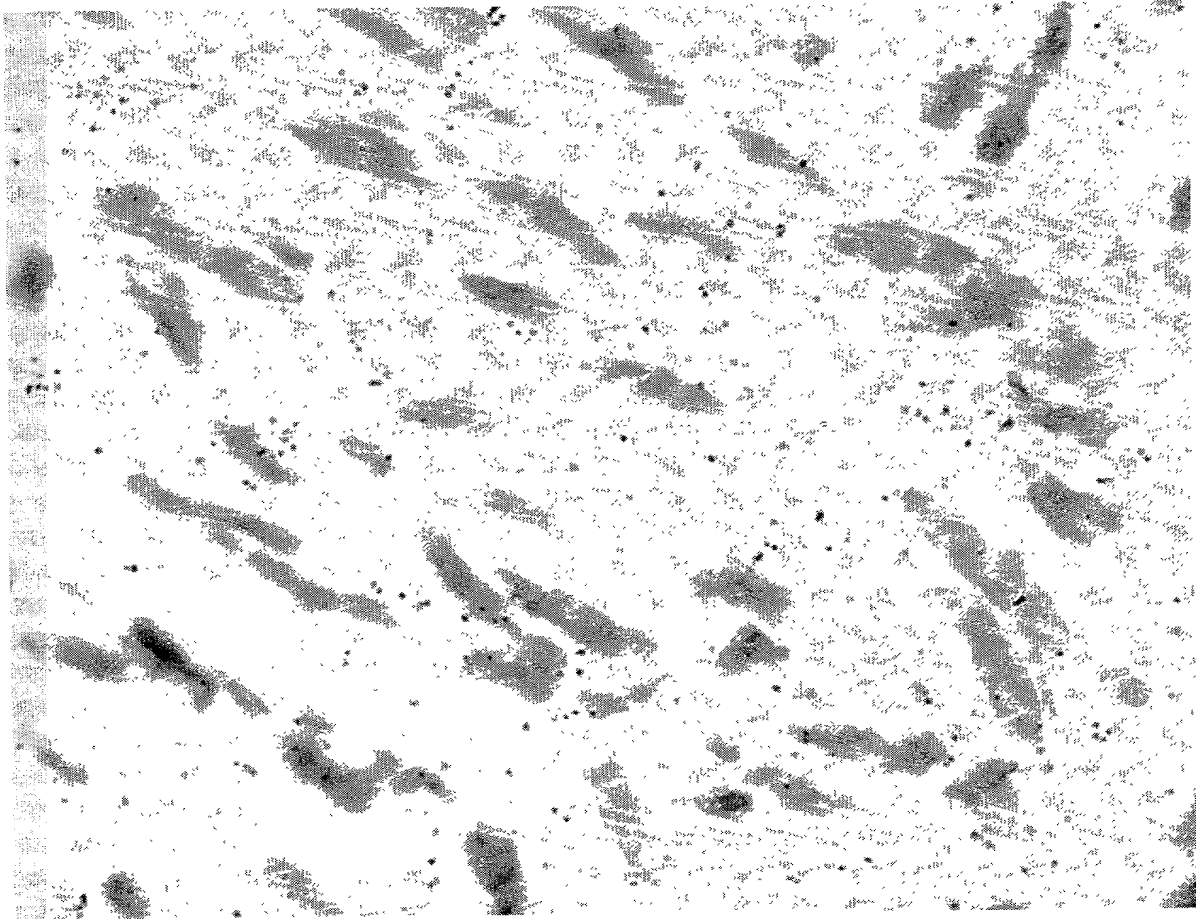


Figure 4

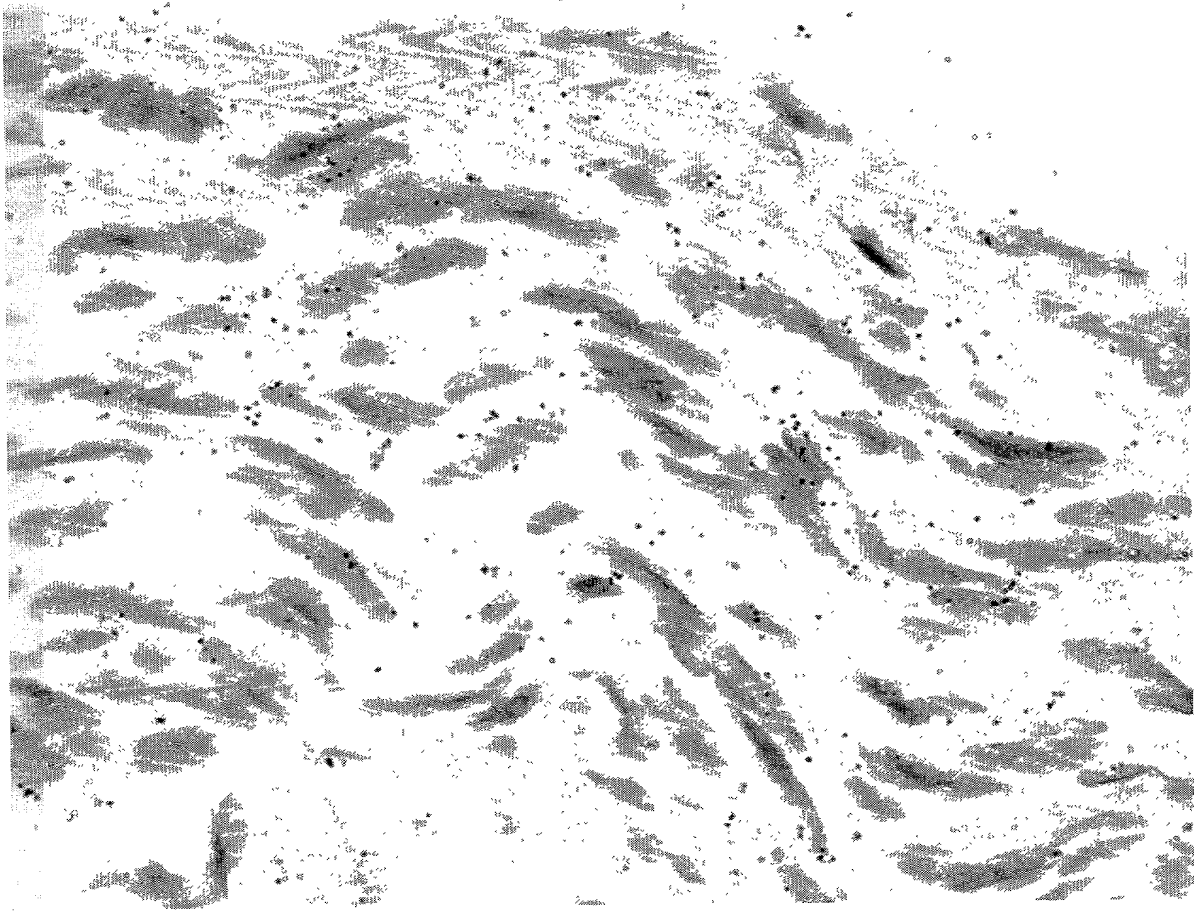
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**FIGURE 5**



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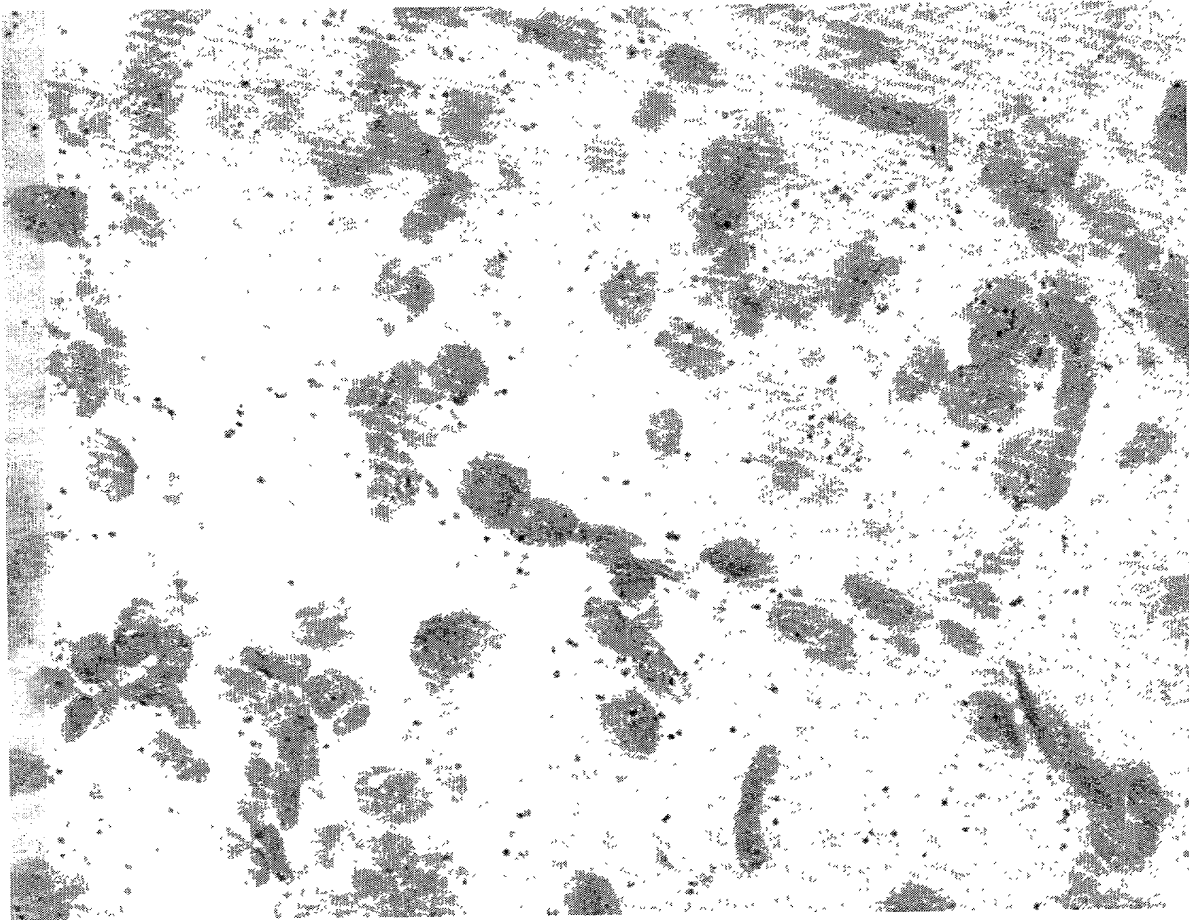
FIGURE 6



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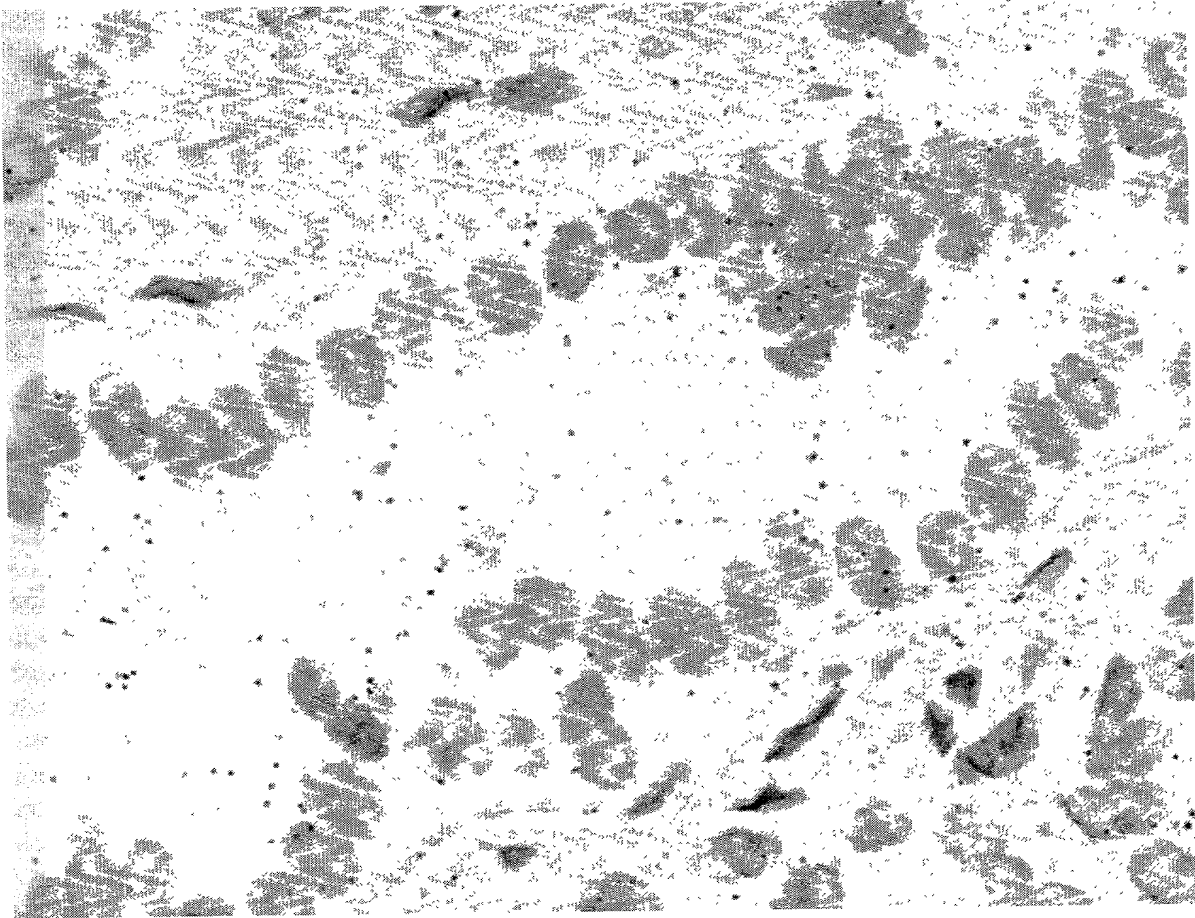
**FIGURE 7**



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"0202" 885007

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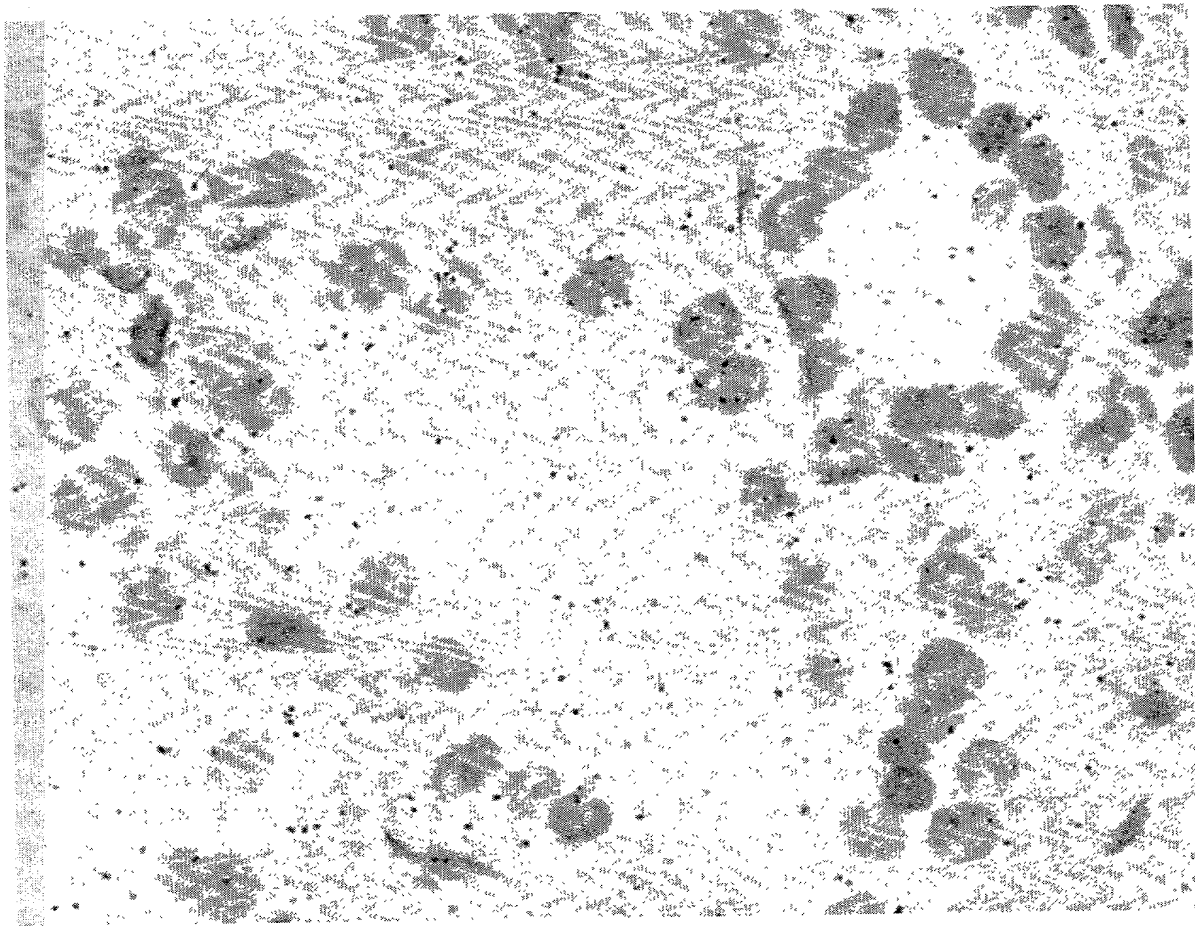
FIGURE 8



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FIGURE 9



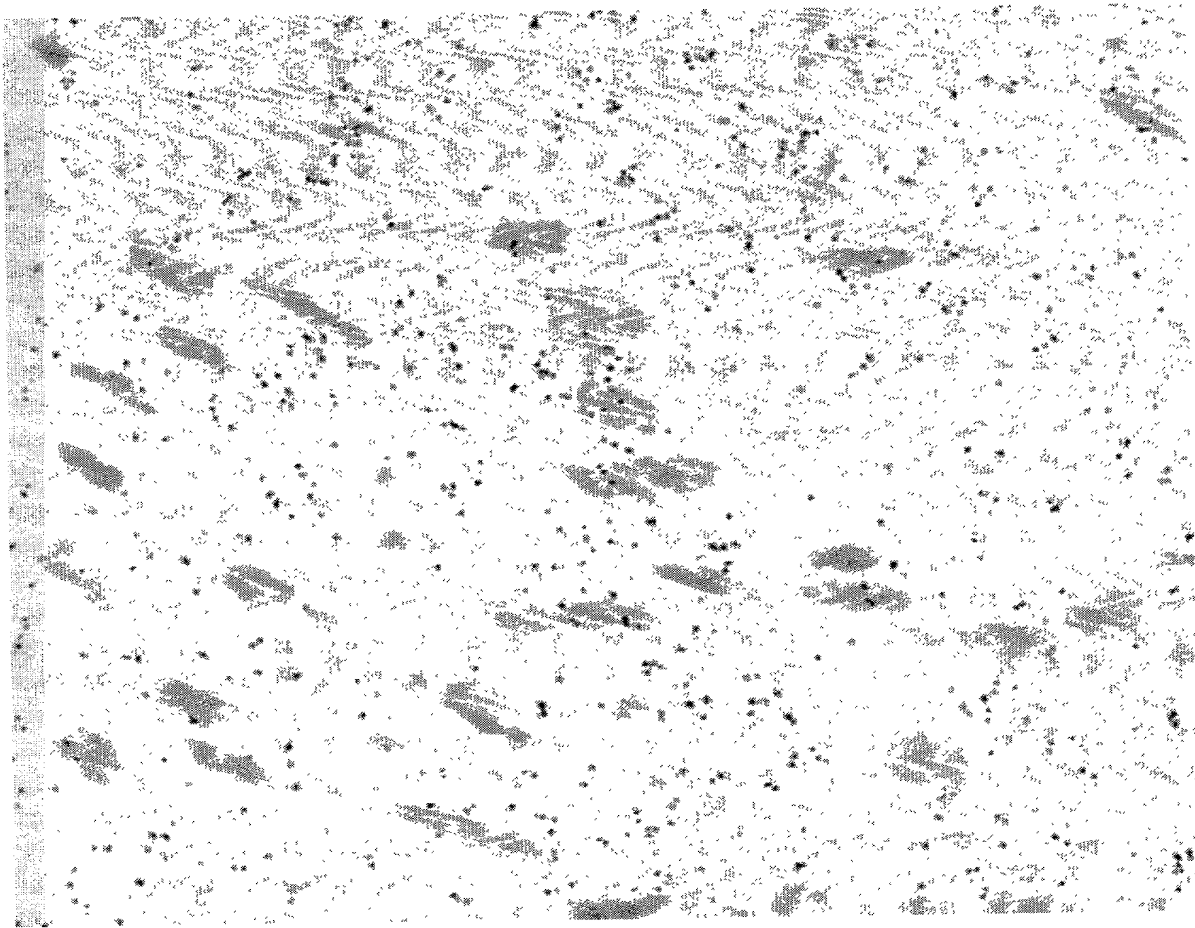
FOZOT BEESOT



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FIGURE 10

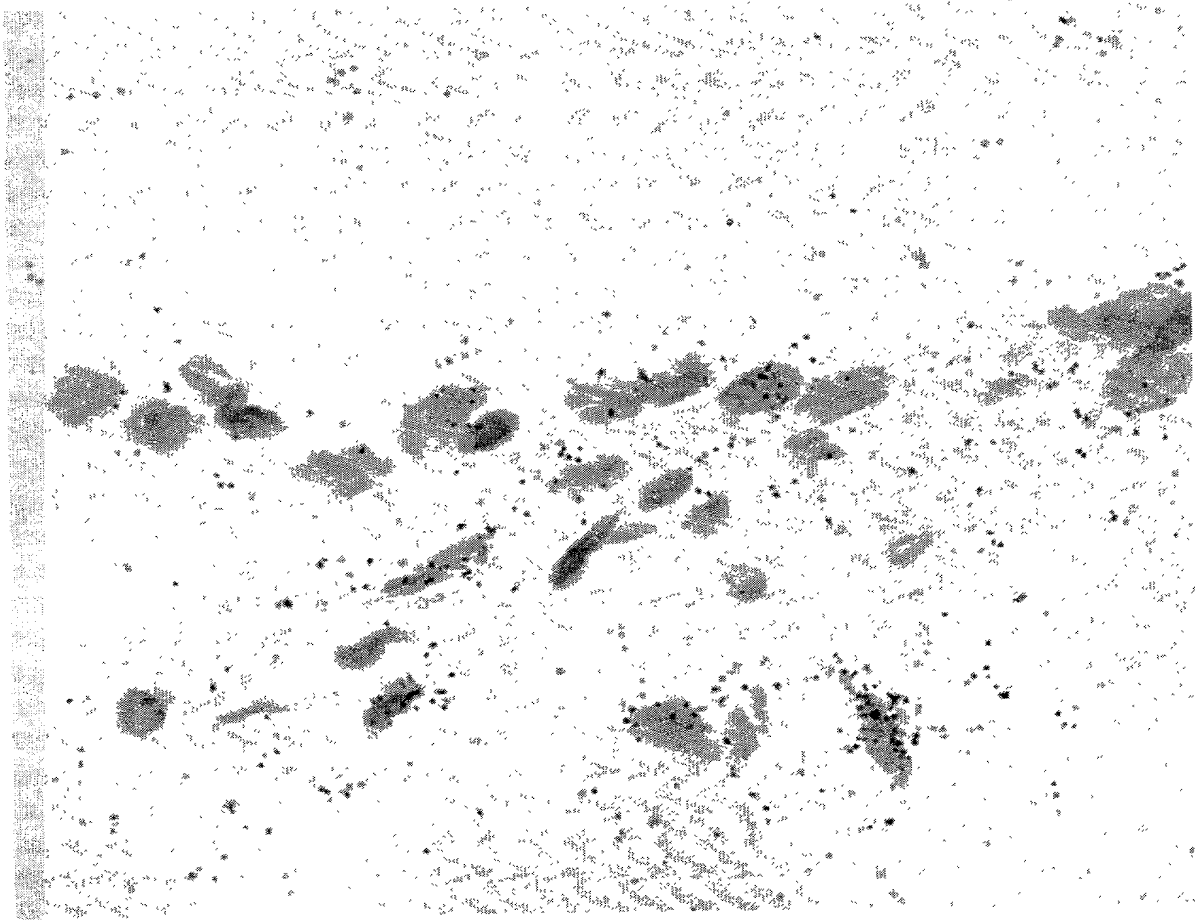
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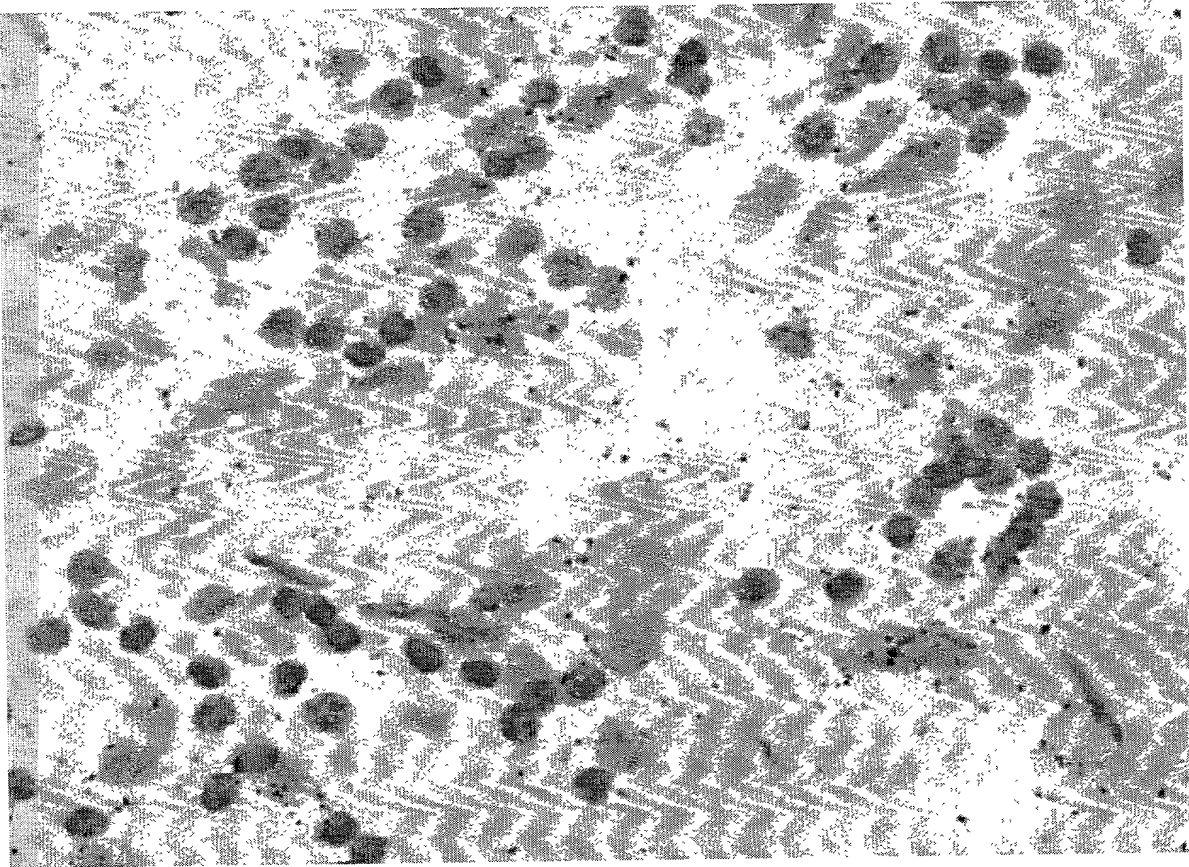
FIGURE 11

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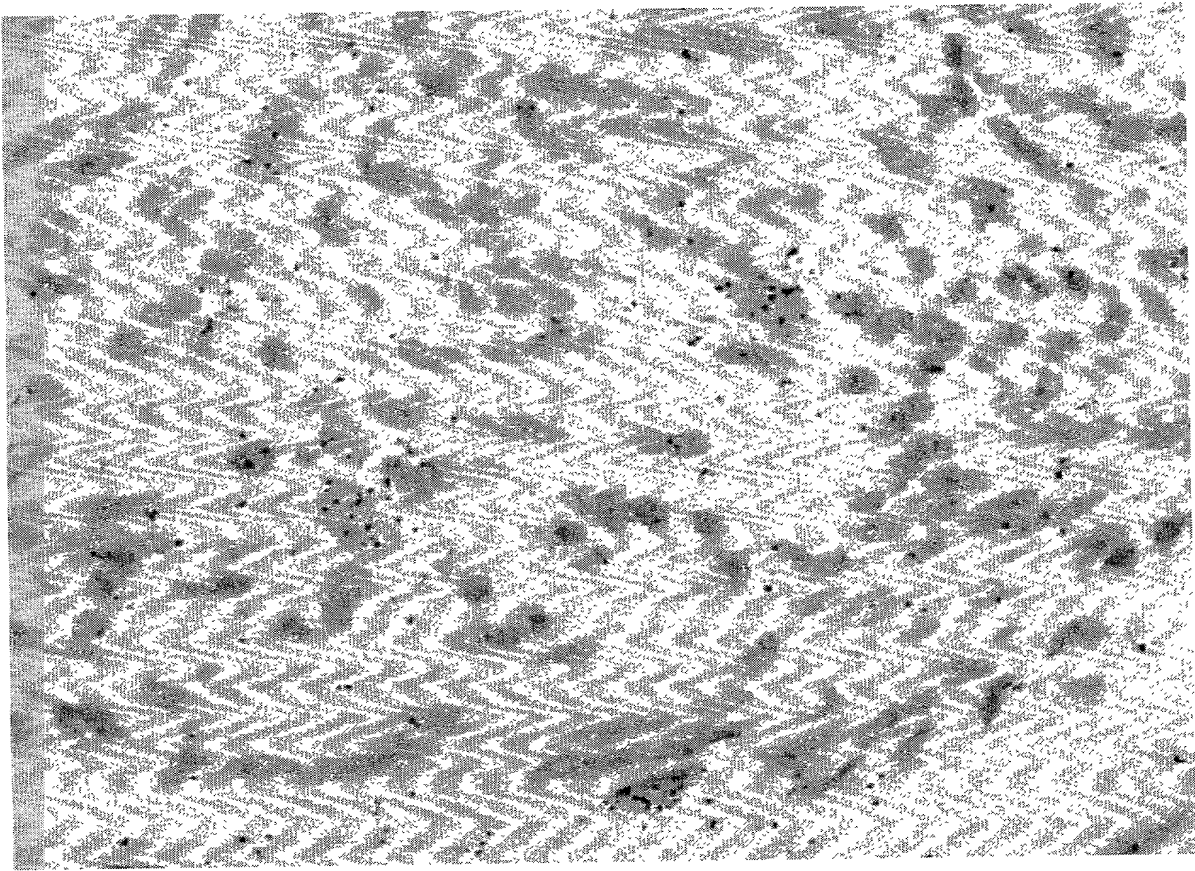
FIGURE 12



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FIGURE 13

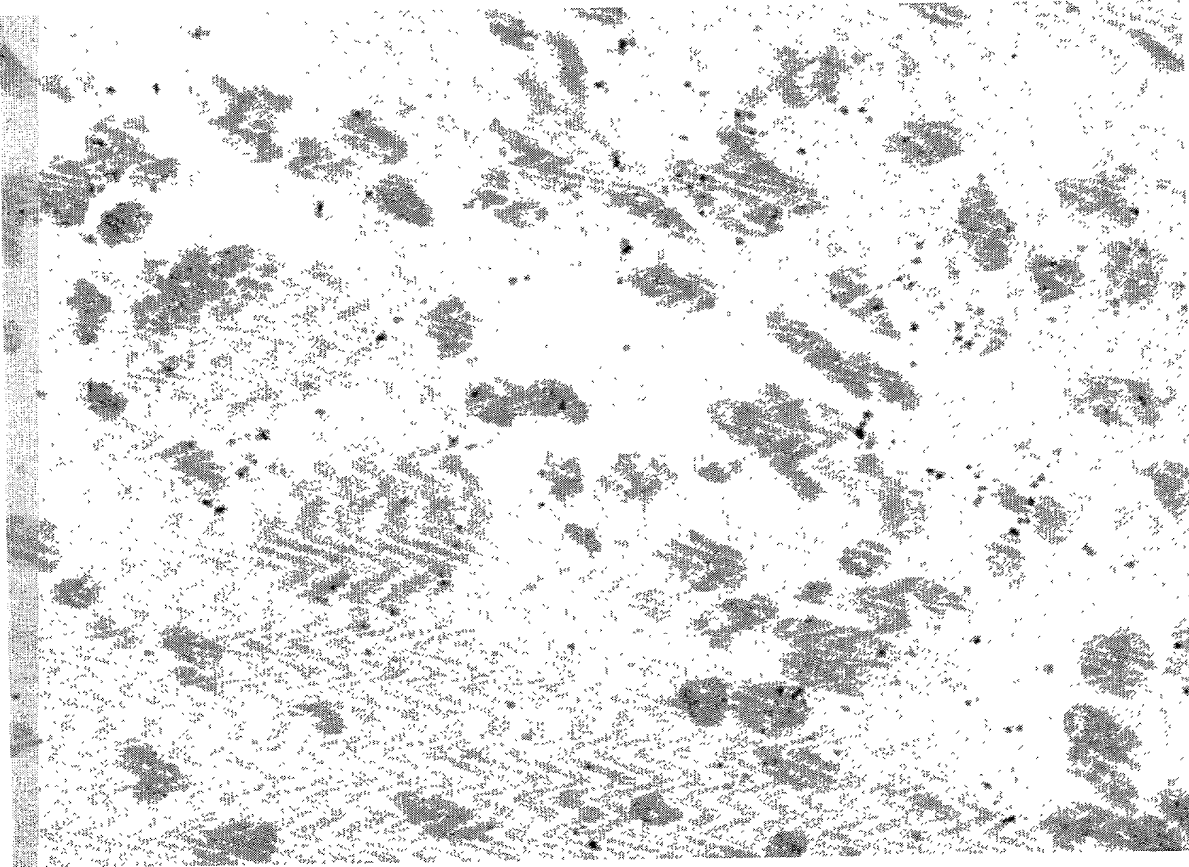


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A high-contrast, black and white image showing a dense, textured surface, possibly a wall or a large piece of paper, with numerous small, dark, irregular spots and marks scattered across it. The texture is grainy and noisy, suggesting a low-quality scan or a heavily distressed surface.

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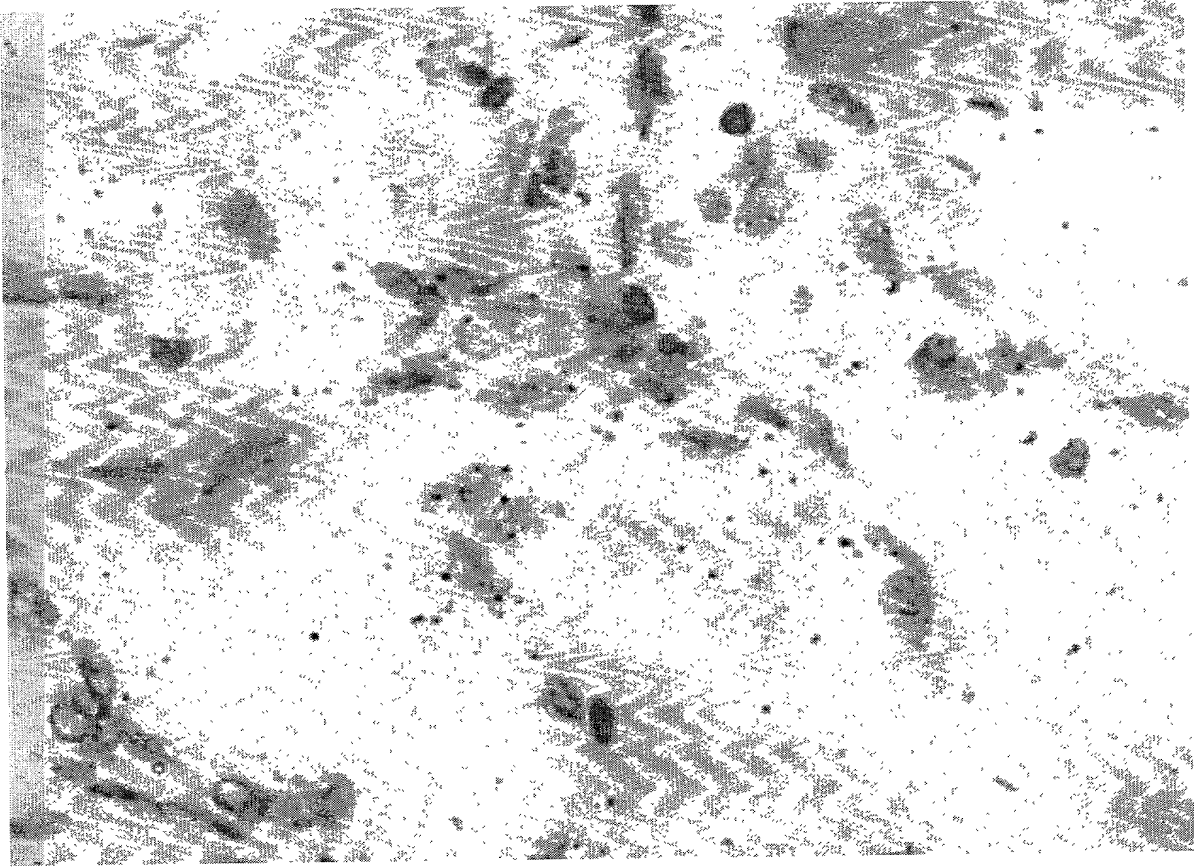
FIGURE 15



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**FIGURE 16**

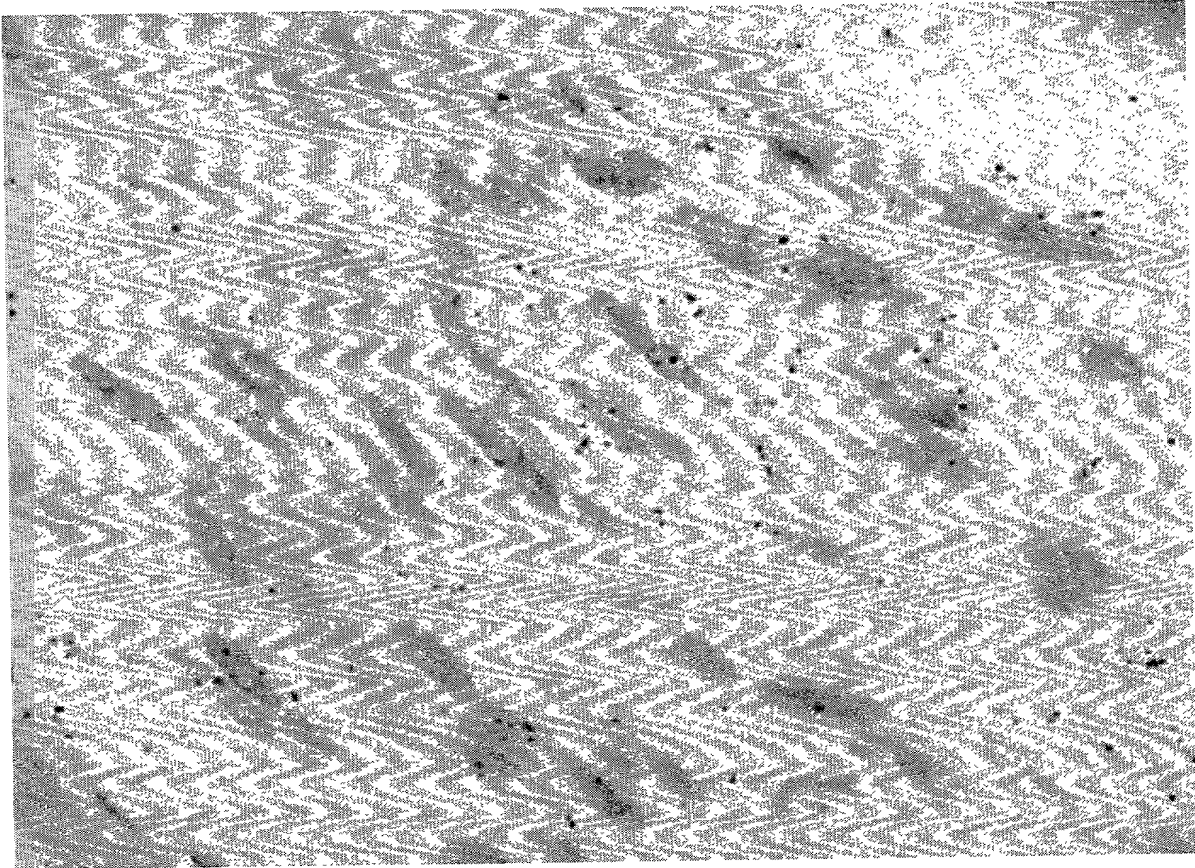


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**FIGURE 17**



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